

ATTENUATOR CHIP 1 WATT



DATA SHEET

PART SERIES: TS04XX

SHEET 1 OF 2
Dwg 1009095

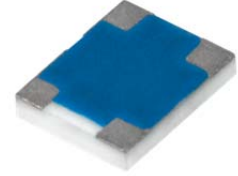
EN 16-1136
Revision H

FEATURES

Small Footprint
High Power
Surface Mount
Low VSWR
Easy Installation
Wide Attenuation Offering

APPLICATIONS

Mobile Networks
Broadcast
High Power Amplifiers
Isolators/Circulators
Military
Instrumentation



GENERAL DESCRIPTION

EMC Technology offers the widest selection of chip attenuators worldwide. Chip components are offered in Alumina, Aluminum Nitride, Beryllium Oxide, and CVD diamond for maximum performance.

ORDERING INFORMATION

Part Identifier: TS04XX

(XX) – dB Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms
Frequency Range: DC – 6 GHz
Attenuation Values Available: 0 – 10 in 1 dB increments and 20 dB
Attenuation Accuracy:

ATTENUATION ACCURACY			
dB	DC – 2.5 GHz	2.6 – 4 GHz	4 – 6 GHz
0	+0.3, -0.0	+0.6, -0.0	+0.8, -0.0
1 – 3	±0.3	±0.5	±0.5
4 – 6	±0.4	±0.5	±0.5
7 – 10	±0.5	±0.5	±0.75
20	±2.0	-	-

Input Power CW: 1 Watts full rated power to 85°C, derated linearly to 0 watts at 150°C.
VSWR: DC – 2.5 GHz - 1.15:1
2.6 - 6 GHz - 1.25:1

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C
Non-operating Temperature: -65°C to +150°C

3.0 MARKING

Unit Marking: “dB Value” and Input Dot

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL_L

Visual and Mechanical Inspection for Conformance to Outline Drawing
Measure Attenuation and VSWR
Data Retention - Standard

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5.0 PACKAGING

Standard Packaging:

Tape and Reel

6.0 MECHANICAL

Resistive Film:

Thin Film, Tantalum Nitride

Terminal Material:

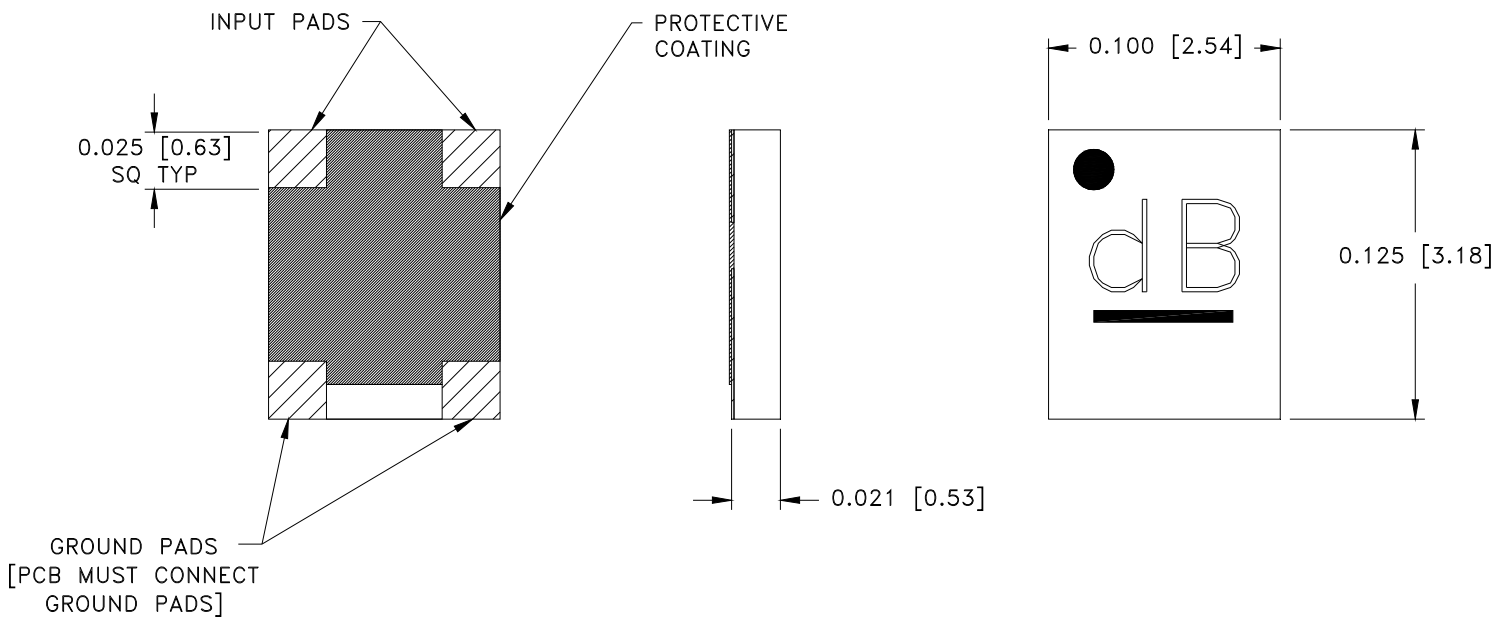
Thick Film, Nickel Barrier, Solder Coated

Metric Dimensions:

Provided for reference only

Workmanship

PER MIL-R-55342



Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005

7.0 SUGGESTED MOUNTING FOOTPRINT

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TS04XX	0.027	0.027	0.050	0.027	0.074	0.105	0.69	0.69	1.27	0.69	1.88	2.67

